

Mission

Acquire, deliver and support integrated capabilities that rapidly detect, monitor, and assess the conditions of the physical environment (air, sea, land and space). This assessment outlines the effects of chemical, biological, radiological and nuclear (CBRN) contaminants on the performance of military forces, platforms, weapons, communications and Intelligence, Surveillance, and Reconnaissance (ISR) systems. JPM-IS enables the seamless delivery of data, information and knowledge from sensors-to-display on C4I and combat systems to military commanders and their assigned combat and combat support forces.



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Joint Project Manager Information Systems



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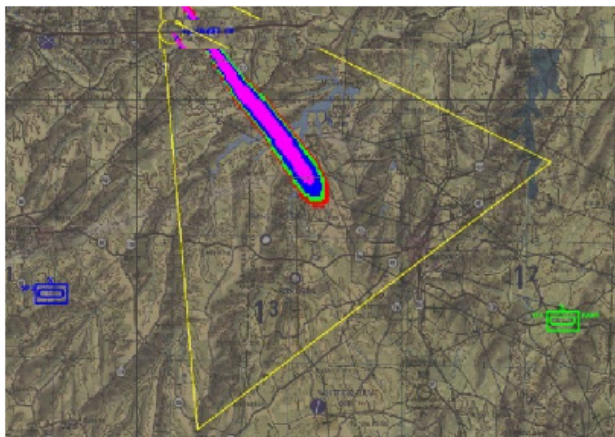
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JWARN

The Joint Warning and Reporting Network (JWARN) will provide the Joint Forces with a comprehensive analysis and response capability to minimize the effects of hostile Nuclear, Biological, and Chemical (NBC) attacks as well as accidents and incidents. It will provide the operational capability to employ NBC warning technology which will collect, analyze, identify, locate, report and disseminate NBC warnings. The JWARN will be compatible and integrated with Joint and Service Common Operating Environment (COE) based operational and non-COE based tactical Command, Control, Computers, and Communications, Intelligence, Surveillance, and Recognizance (C4ISR) systems. Additionally, JWARN will be located in Command and Control Centers at the appropriate level, and will be employed by NBC defense specialists and other designated personnel. This employment will transfer data automatically from and to the actual detectors and sensors and will provide



commanders with analyzed data to support operational decision-making in an NBC environment. JWARN will also provide additional data processing, production of plans and reports, and access to specific NBC information to improve the efficiency of limited NBC personnel assets.

JEM

The Joint Effects Model (JEM) will provide a single, validated capability to predict and track NBC and Toxic Industrial Chemical/Material (TIC/TIM) events and effects. An operational version of JEM will reside on C4I platforms and will interface with existing and planned warning systems, weather data, messages, and support deliberate planning and analysis. Additional blocks are intended to include high altitude, urban and interior effects. The JEM will enhance the Common Operational Picture with a capability to depict and track NBC events, provide a single valid representation of the Warfighter and reduces maintenance and support burden.



JOEF

The Joint Operational Effects Federation (JOEF) is a Joint Service program endorsed by the DoD that provides an operational requirements modeling and simulation system which accurately predicts the effects of a chemical and biological warfare environment on personnel, equipment and operations. JOEF determines chemical and biological operational effectiveness and supports development of NBC operational requirements; supports Tactics, Techniques and Procedures (TTPs), doctrine and Concepts of Operation (CONOPS) development; supports technology and concept evaluation; supports training and contingency planning and provides a Battle Management Information System to support near real-time decision-making in a combat environment. The JOEF will assess the impact of chemical, biological, radiological and nuclear (CBRN) warfare on personnel and military operations, support both advanced and operational planning and be deployed on Command and Control (C2) systems of all Services.

